Figure 1
E-Nect Component Diagram
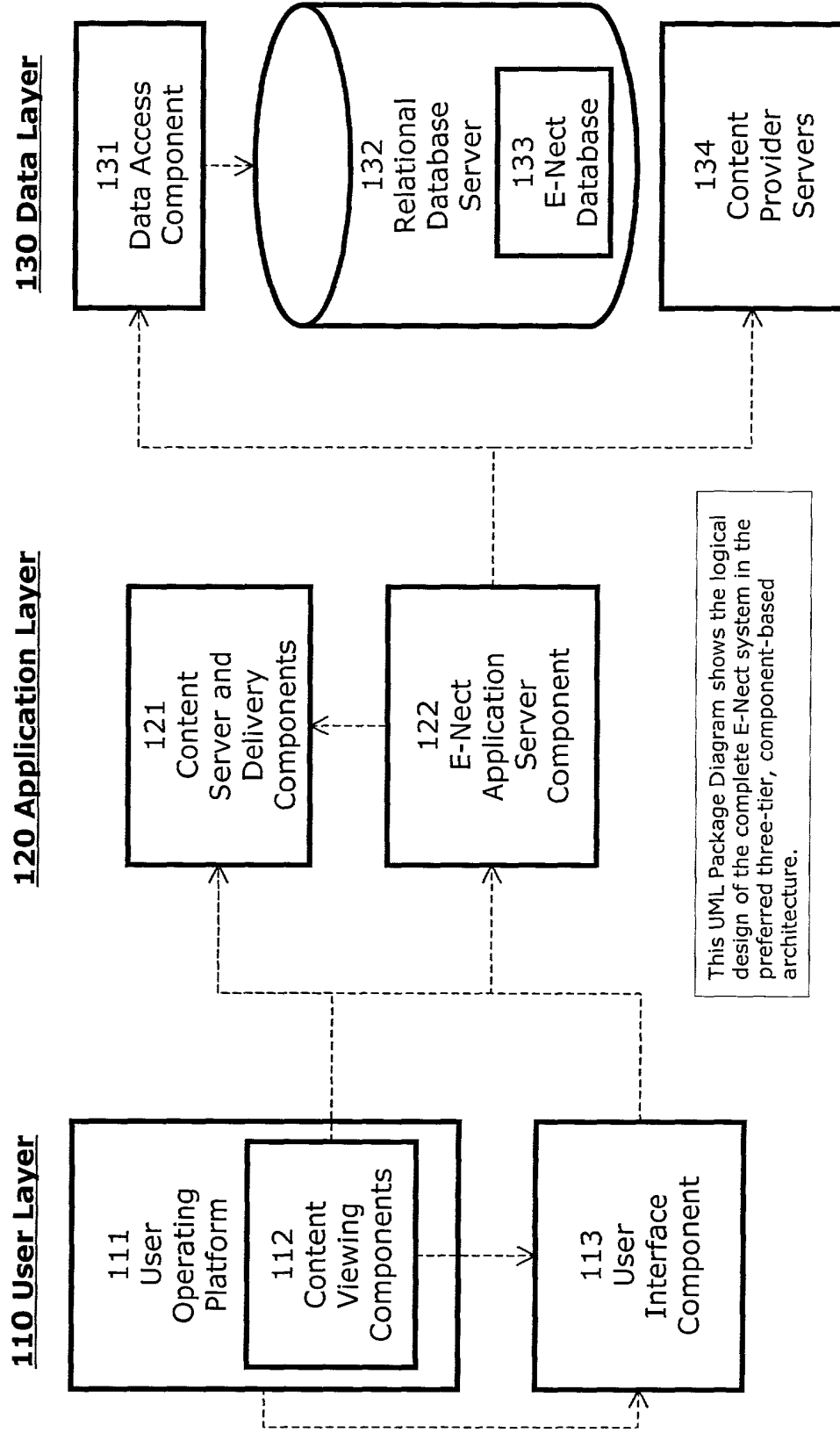
130 Data Layer

131 Data Access Component

132 Relational Database Server

133 E-Nect Database

134 Content Provider Servers

120 Application Layer

121 Content Server and Delivery Components

122 E-Nect Application Server Component

110 User Layer

111 User Operating Platform

112 Content Viewing Components

113 User Interface Component

This UML Package Diagram shows the logical design of the complete E-Nect system in the preferred three-tier, component-based architecture.

Figure 2
E-Nect Deployment Diagram

240 Data Server Node

241 Relational Database Server

242 E-Nect Database

250 Content Provider Server Nodes

230 Application Server Node

231 E-Nect Application Server Component

232 Data Access Component

220 Content Server Node

221 User Interface Component

222 Content Server and Delivery Components

210 User Device Node

211 User Operating Platform

212 Content Viewing Components

This UML Deployment Diagram shows one of the possible physical deployment methods for a complete E-Nect System.
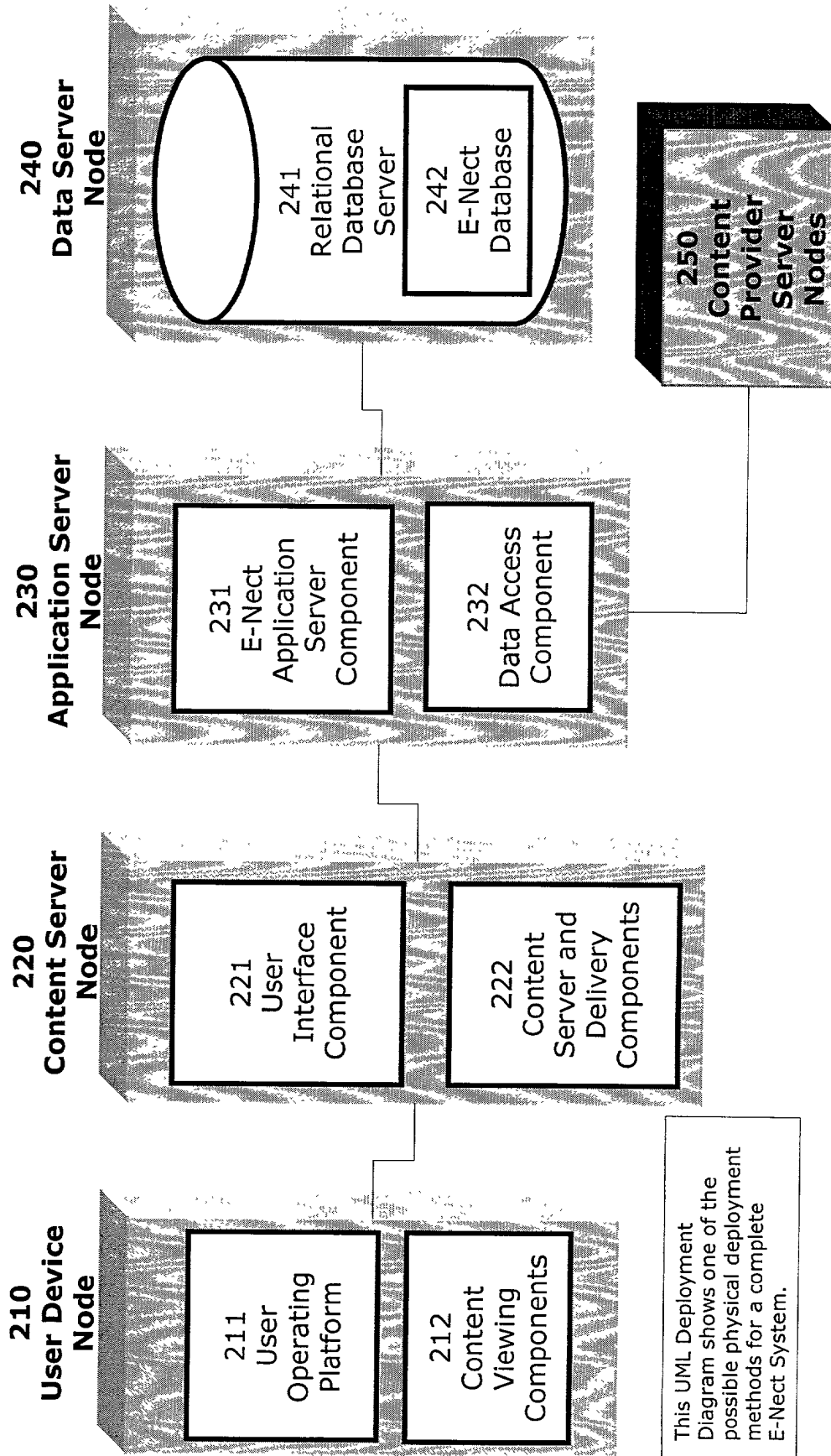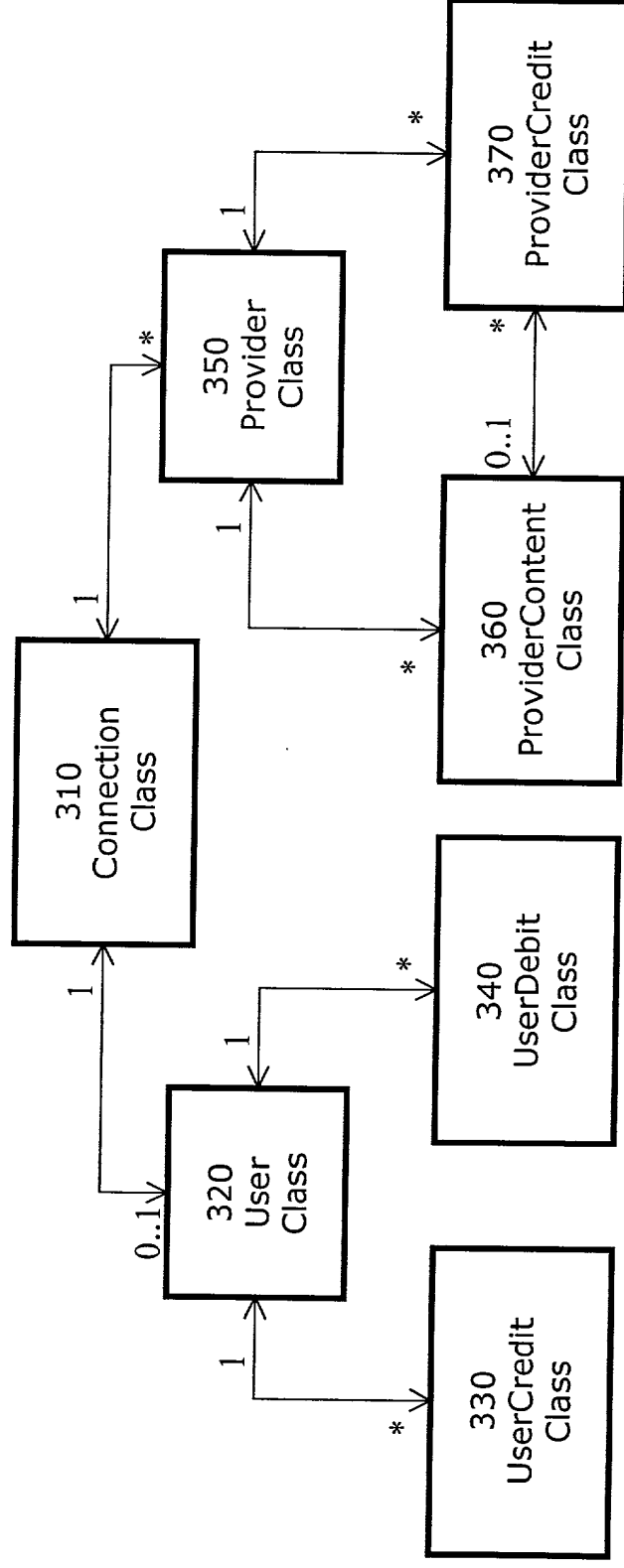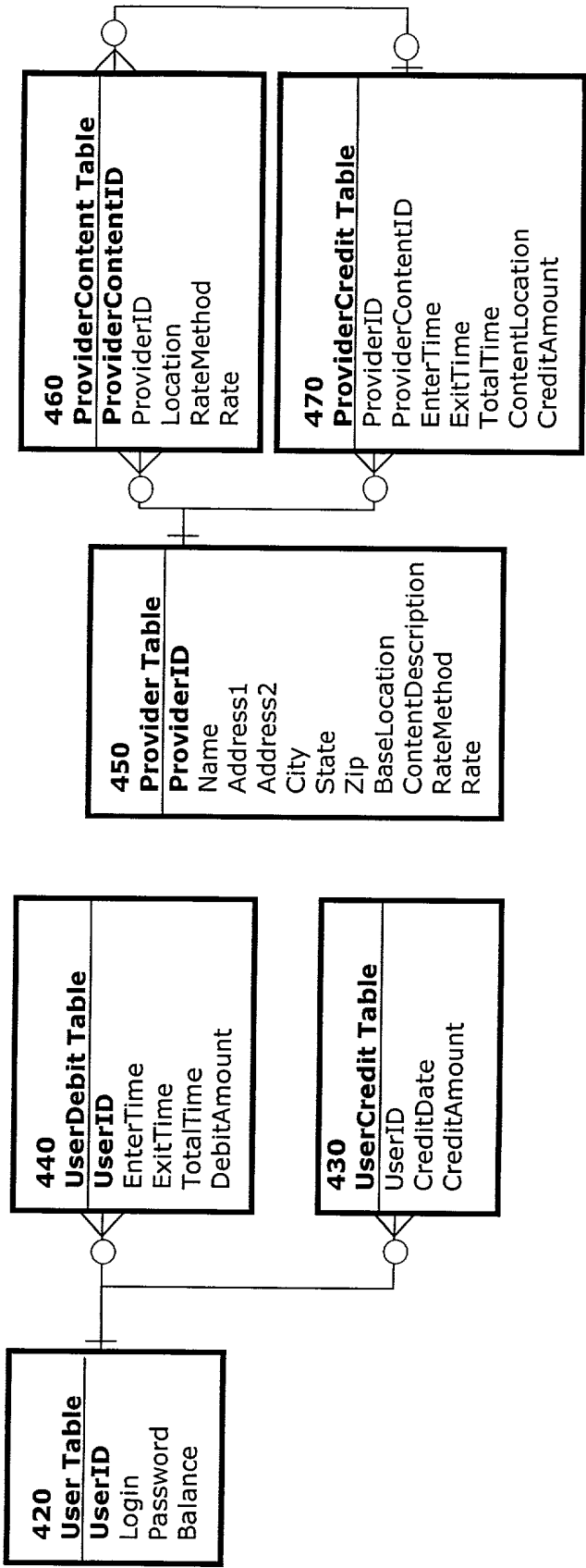
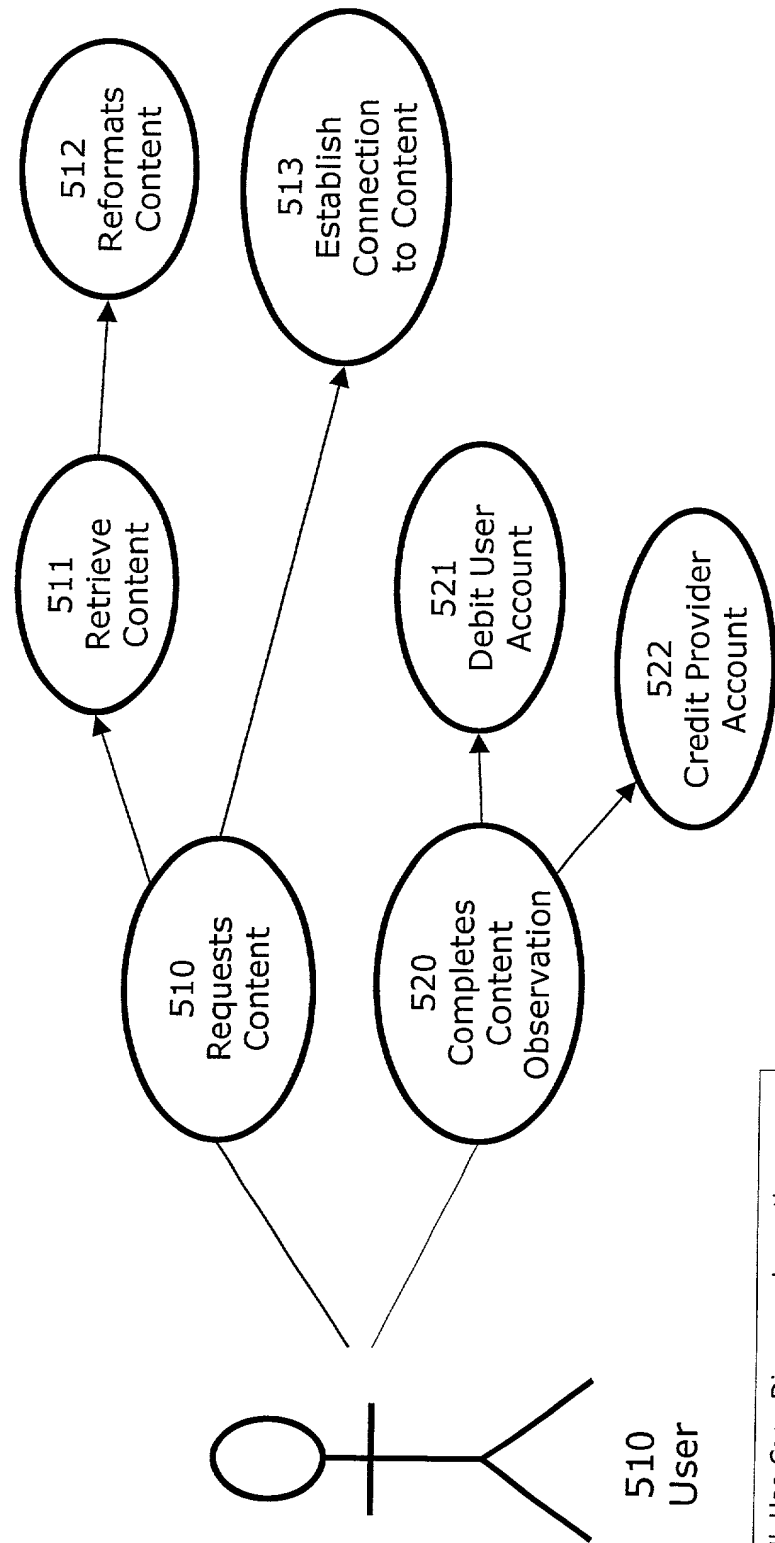# Figure 3
E-Nect Application Server Component Class Diagram

This UML Class Diagram shows the associations between classes of the E-Nect Application Server Component.

Figure 4
E-Nect Database Model

420
User Table
UserID
Login
Password
Balance

440
UserDebit Table
UserID
EnterTime
ExitTime
TotalTime
DebitAmount

430
UserCredit Table
UserID
CreditDate
CreditAmount

450
Provider Table
ProviderID
Name
Address1
Address2
City
State
Zip
BaseLocation
ContentDescription
RateMethod
Rate

460
ProviderContent Table
ProviderContentID
ProviderID
Location
RateMethod
Rate

470
ProviderCredit Table
ProviderID
ProviderContentID
EnterTime
ExitTime
TotalTime
ContentLocation
CreditAmount

This Entity Relationship Diagram shows
database table and relationship structures
for the E-Nect Database.

Figure 5
E-Nect Method - Use Case Diagram

510 User

512 Reformats Content

513 Establish Connection to Content

511 Retrieve Content

521 Debit User Account

522 Credit Provider Account

510 Requests Content

520 Completes Content Observation

This UML Use Case Diagram shows the primary user interactions with the E-Nect System.

Figure 6
E-Nect Method – Activity Diagram

601 Request Content

[Content Requires a Connection]

[Content can be Delivered]

602 Lookup Content Information

603 Retrieve Content from Provider or Local Cache

604 Contains Content Links

[No]

[Yes]

605 Reformat Content Links

606 Deliver Content to User Device

[User Viewing Complete]

607 Establish Connection to Provider Content Server Node

608 Provide Anonymous Connection Routing to User Device

[User Viewing Complete]

609 Terminate Connections

610 Credit Provider Account

611 Debit User Account

This UML Activity Diagram shows the E-Nect Method for retrieving and/or connecting anonymous Users to premium Content from Providers.

Figure 7
E-Nect Method - Collaboration Diagram

7000 : User Interface

701: Request Log in
703: Request Content
708: Observation Complete

7100 : Connection

702: Log in

7200 : User

704 : Retrieve Content information

7500 :Provider

706a : Retrieve Content
706b : Provide Connection
709 : Terminate Connection

705*: Retrieve Information

7600 : ProviderContent

707: [contains links == true] Reformat

710 : Post

711 : Post

7400 : UserDebit

7700 : ProviderCredit

This UML Collaboration Diagram shows the interaction of E-Nect Application Server objects used to enact the E-Nect Method for retrieving and/or connecting anonymous Users to premium Content from Providers.
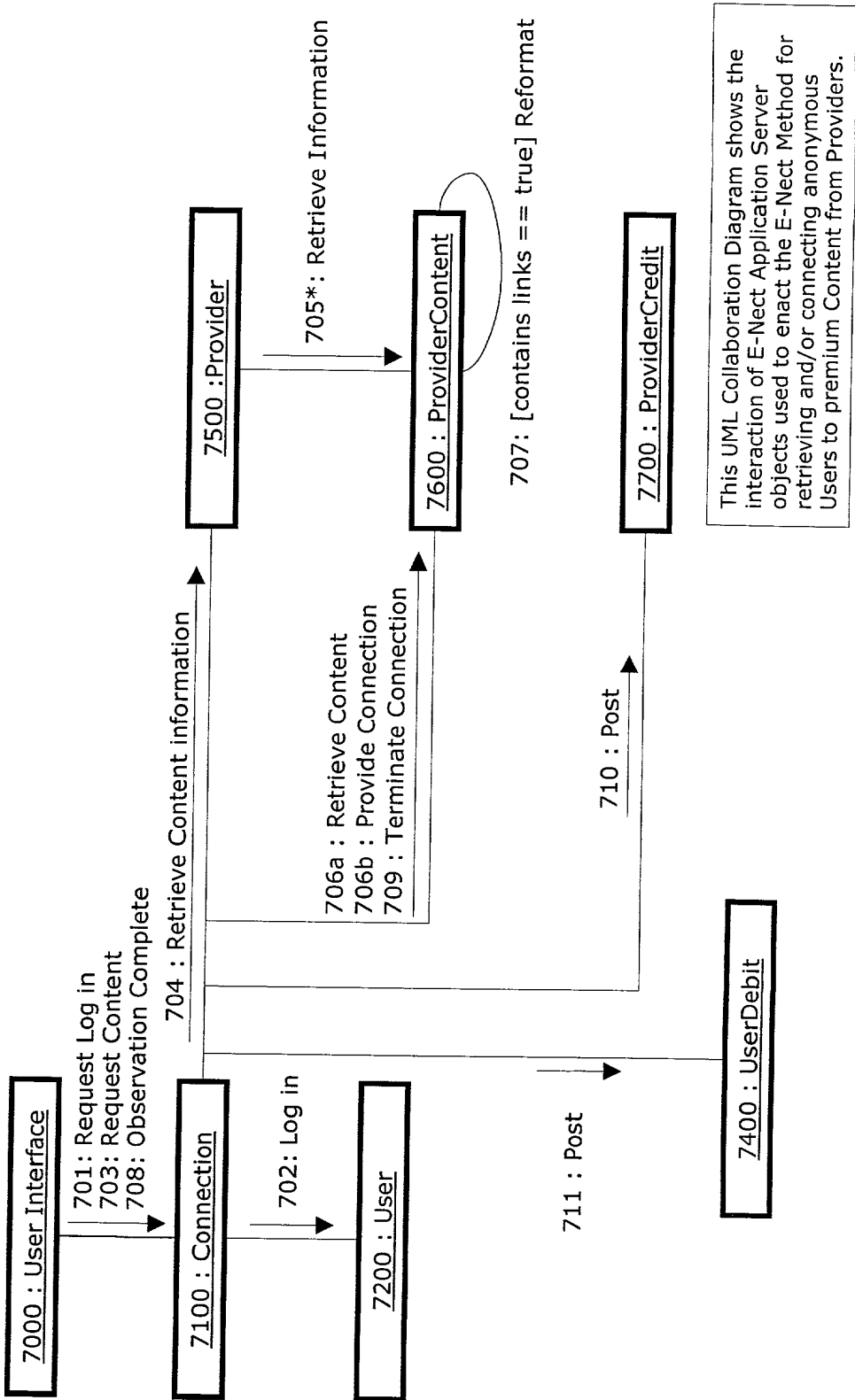
Figure 8
E-Nect Method - Sequence Diagram

This UML Sequence Diagram shows the interaction of E-Nect Application Server objects used to enact the E-Nect Method for retrieving and/or connecting anonymous Users to premium Content from Providers, and other related processes.

810 : a Connection

820 : a User

850 : a Provider

860 : a ProviderContent

870 : a ProviderCredit

840 : a UserDebit

801 Log in Request
801.1 New
801.2 Log in

802 Content Request
802.1 New
802.2 Retrieve Content Information
802.3 New
802.4 Retrieve
802.5 Retrieve Content or Provide Connection
802.6 Reformat

803 Observation Complete
803.1 Terminate Connection
803.2 New
803.3 Post
803.4 Delete
803.5 New
803.6 Post
803.7 Delete
803.8 Delete
803.9 Delete

804 User Disconnect
804.1 Delete